

Bellwork: 4/24/13

Simplify the following radicals:

1) $\sqrt{200x^{15}yz^8}$

Handwritten work for problem 1:
200
100 2
10 10

Handwritten answer for problem 1:
 $10x^7z^4\sqrt{2xy}$

2) $\sqrt[3]{72x^5y^{11}z^2}$

Handwritten work for problem 2:
 $-2x^3\sqrt[3]{9x^2y^2z^2}$

Handwritten prime factorization for problem 2:
72
9 8
3 3 4 2
2 2

15) $\sqrt{36x^2y^3}$

16) $\sqrt{384x^4y^3}$

17) $7\sqrt{96m^3}$

18) $6\sqrt{72x^2}$

19) $-6\sqrt{150r}$

Handwritten work for problem 19:
150
15 10
3 5 5 2
-6 · 5√6r
-30√6r

20) $5\sqrt{80a^2}$

21) $2\sqrt{125v}$

22) $-8\sqrt{24k^3}$

$$23) -4\sqrt{192x}$$

$$24) 2\sqrt{8p^2q^3r}$$

$$25) -4\sqrt{216x^2y^2z}$$

$-4 \cdot 6 \cdot \sqrt{6}$



$$26) -3\sqrt{24a^4b^2c^3}$$

$$27) 3\sqrt{16x^4y^4z}$$

$$28) -2\sqrt{48a^3b^4c^2}$$

$$29) 6\sqrt{75mp^2q^3}$$

$$30) 4\sqrt{36x^2y^3z^4}$$

